



Town of Lancaster

BUILDING DEPARTMENT
21 CENTRAL AVENUE
LANCASTER, NEW YORK 14086
716-684-4171
FAX 685-5317

TOWN BOARD
Supervisor
Johanna M. Coleman

Councilmembers
John M. Abraham, Jr.
Dawn Gaczewski
Ronald Ruffino, Sr.
Matthew Walter

ELECTRICAL REQUIREMENTS for ABOVE GROUND POOLS

As applicant/recipient of a permit for installation of an above ground pool you are required to follow the electrical requirements as set forth in this communication. Electrical Inspection is mandatory before final inspection by the Town of Lancaster or the pool is put in-use. Accepted Electrical Inspection agencies shall be provided upon request.

1) Pool Pump Receptacle

- a) A receptacle **cannot** be located within 6 ft. of the pool wall.
- b) A receptacle located from 6 ft. to 10 ft. of the pool wall **is required** to be a twist lock type with Ground Fault Circuit Interrupter (GFCI) protection.
- c) A receptacle located more than 10ft. from the pool wall; standard straight blade receptacle with Ground Fault Circuit Interrupter (GFCI) **is permitted**.
- d) Exposed outdoor receptacles **must** have weather-tight in-use covers.
- e) A separate circuit **is required** if the pump motor draws more than 50% of the circuit rating.
- f) Receptacle wiring **must** be type THHN for wet locations run in conduit when installed outdoors. Required conduit materials maybe either PVC buried to a depth of 18 ins. or Rigid Steel buried at a depth of 6 ins. (exception: PVC conduit is permitted at a depth of 12 ins. when the circuits are GFCI protected before entering the ground; the GFCI protection **must** be located in/on the dwelling, shed or garage.) expansion coupling on the conduit **is required** at the dwelling, shed or garage.
- g) Ground wire installed in conduit for pump motor **shall be not less than** #12 AWG insulated wire.
- h) Change over to romex wire **is permitted** by use of a junction box with proper splicing methods at the point of entry to the interior of the dwelling, shed or garage.
- i) UF cable **is not permitted** for pool pump receptacle installation.

- j) Pool Pump cord **shall be** 3-conductor, **not less than** #12 AWG, **not longer than** 3ft. with a twist-lock or straight blade plug as per letter b & c of this section.

2) Convenience Receptacle

- a) Minimum of 1 GFCI protected receptacle **is required** at a location of **not less than** 6 ft. or **more than** 20 ft. from the pool wall.
- b) Receptacle **must be** equipped with a weather-tight in-use cover when exposed to the outdoors.
- c) Receptacle **must be** a separate circuit from the pump motor if the rating of the pump motor exceeds the circuit rating.
- d) Wire type **may be** direct burial UF cable or part of the conduit system installed for the pump motor.

3) Pool Bonding

- a) #8 solid, un-insulated copper; installed 18 ins. to 24 ins. from the pool wall at a depth of 4 ins. to 6 ins. following the perimeter **is required**.
- b) Bonding of a metal frame pool at 4 equally space points, following the perimeter with approved connectors **is required**.
- c) Bonding of the pump motor to the installed system **is required**.
- d) A water bond **is required** as part of the bonding system per parts a, b & c of this section. A water bond is a concave 9 in. square plate with an approved connection attached to the skimmer basket or a fitting with an approved connection attached to the suction or discharge port of the pool pump.
- e) Any metal object more than 4 ins. measured in any direction penetrating into the metal pool frame more than 1 in. **must be** connected to the bonding system.
- f) Any fixed metal items (fences, down spouts, gutters, aluminum siding, decks, etc.) within 5 ft. of the pool frame **must be** part of the bonding system described in this section.

4) Timer

All pool pump motors **are required** to be run on a timer. Typical timers are as follows.

- i. Clock style mounted inside a garage, shed or dwelling.
- ii. Weather-tight Clock style mounted outdoors on a garage, shed or dwelling.
- iii. A timer device integral to the motor or motor controller.